

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A liquid crystal monitor drive apparatus for driving a liquid crystal panel, comprising:

~~a connector for inputting an integrated circuit chip, the integrated circuit chip receiving an analog graphic signal, a clock signal corresponding to the analog graphic signal, and horizontal and vertical synchronous signals, the integrated circuit chip including;~~

~~a peripheral circuit coupled to an inverter for driving a back light unit;~~

an analog-digital converter arranged to convert the analog graphic signal ~~from the connector~~ into digital graphic data;

a scaler for scaling the definition and timing of the digital graphic data by adjusting the timing of the graphic data based on the clock signal and adjusting the horizontal and vertical synchronous signals ~~from the connector~~ to match with a timing of the liquid crystal panel; and

a timing controller arranged to drive the liquid crystal panel based on the scaled digital graphic data, the adjusted clock signal, and the adjusted horizontal and vertical synchronous signals from the scaler;
and

~~an integrated circuit chip, said integrated circuit chip includes at least two of said analog-digital converter, said scaler, and said timing controller.~~

a peripheral circuit coupled to an inverter for driving a back light unit,
the peripheral circuit operating with a frequency significantly lower than a
frequency of the clock signal corresponding to the analog graphic signal.

2. (Original) The liquid crystal monitor drive apparatus as claimed in claim 1, wherein the integrated circuit chip further includes a frame memory connected with the scaler.

3. (Cancelled)

4. (Currently Amended) The liquid crystal monitor drive apparatus as claimed in claim 31, wherein the integrated circuit chip further includes a frame memory connected with the scaler.

5. (Original) The liquid crystal monitor drive apparatus as claimed in claim 1, wherein there is no wiring between the analog-digital converter and the scaler or the scaler and the timing controller.

6-19. (Cancelled)